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FIG. 1

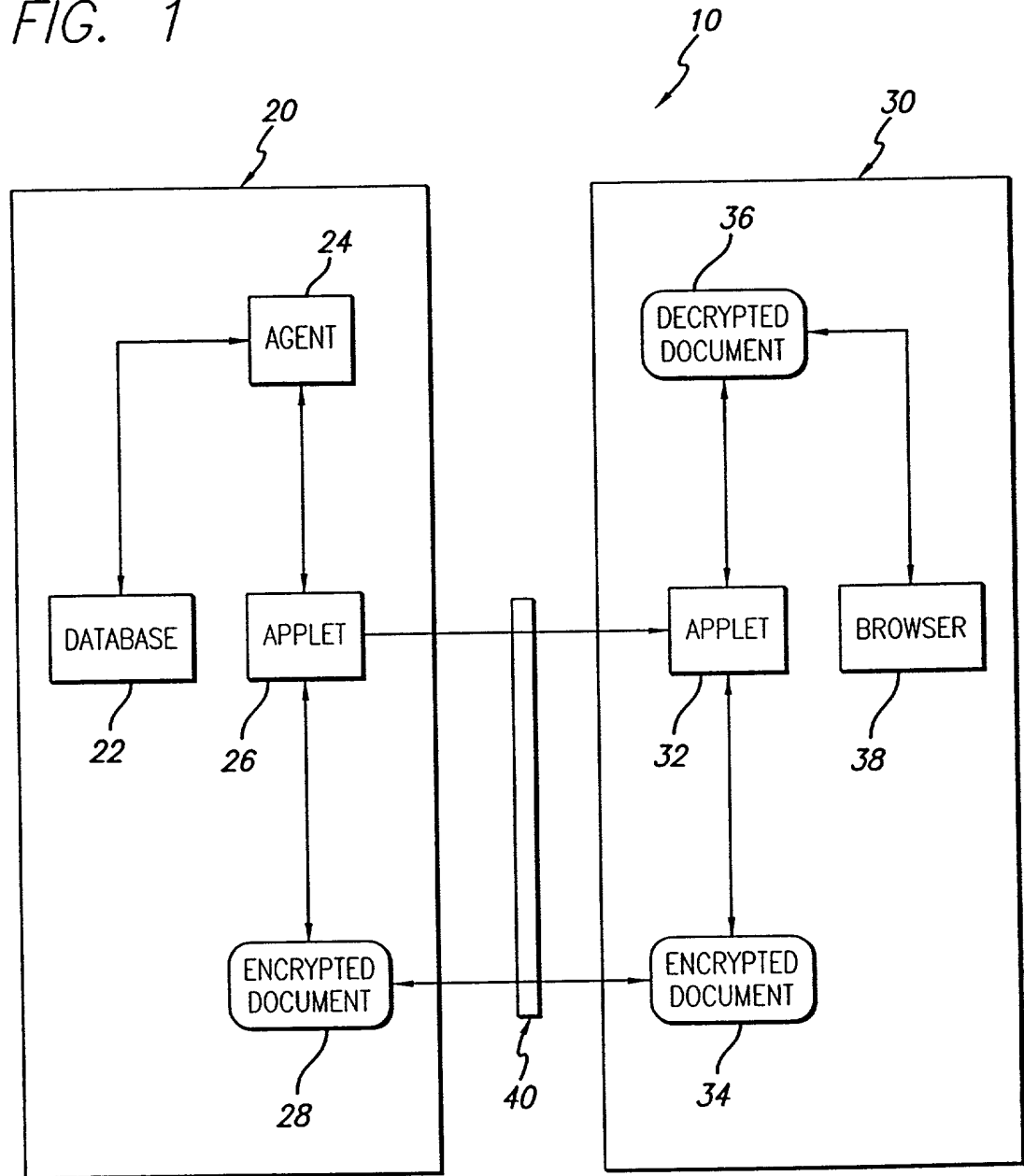


FIG. 2(a)

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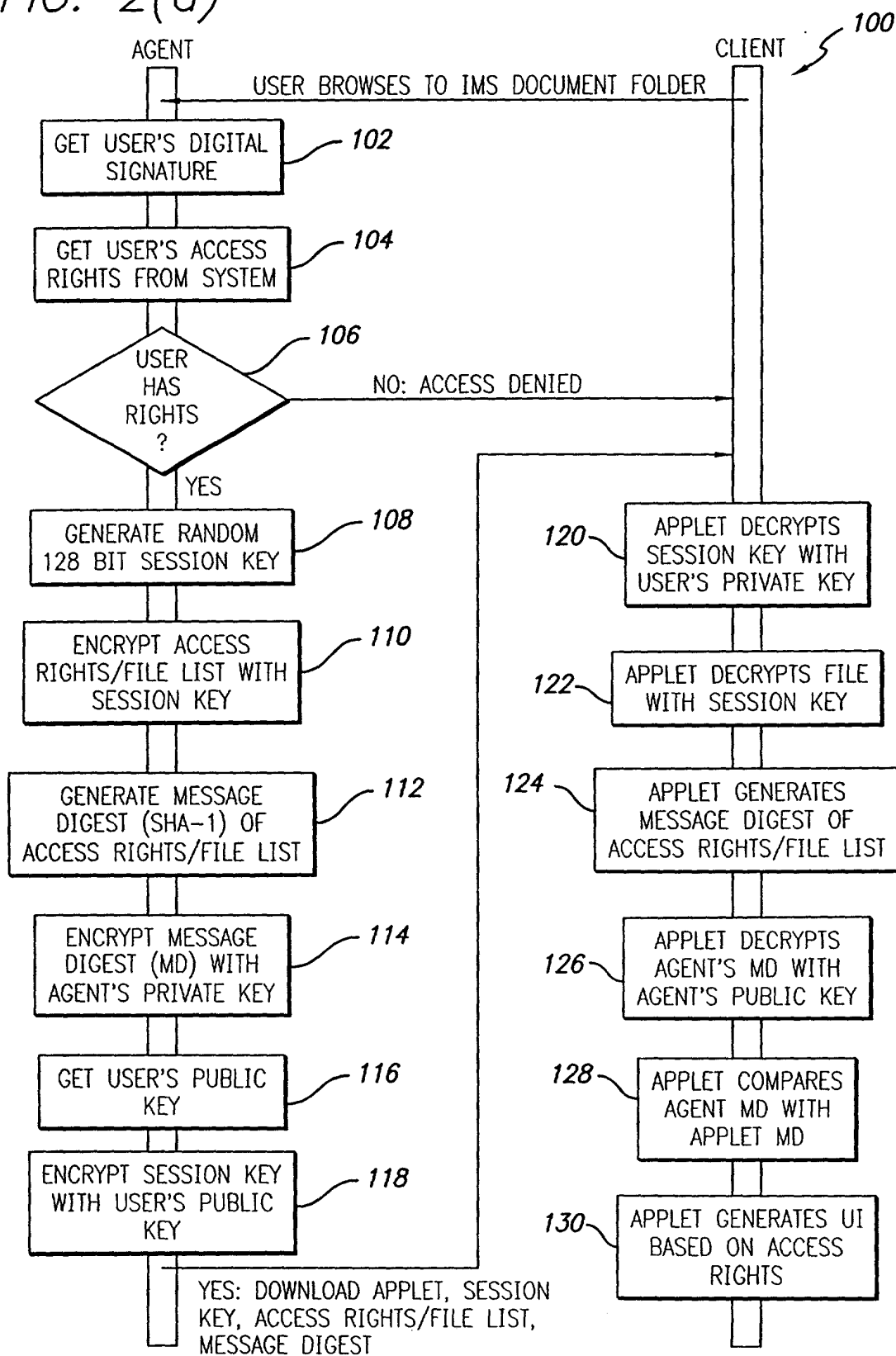
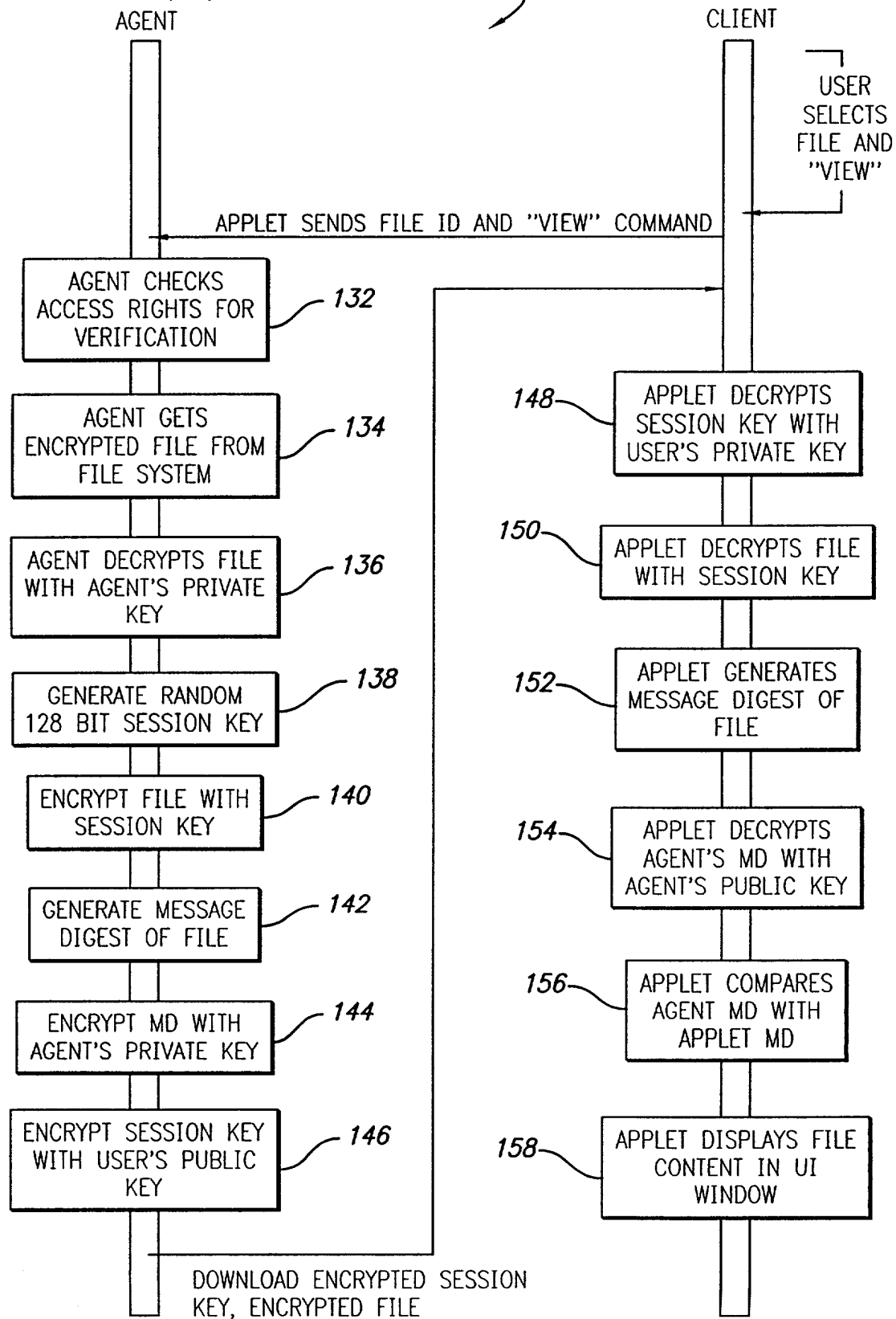


FIG. 2(b)

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100



AGENT

FIG. 2(c) ^{4/5}

100

CLIENT

USER
SELECTS
"MODIFY"

USER
MODIFIES
FILE

CLIENT

USER
SELECTS
"SUBMIT
CHANGES"

100

160 APLET ADDS TAGS FOR
USER'S CHANGES

162 GENERATE RANDOM
128 BIT SESSION KEY

164 ENCRYPT FILE WITH
SESSION KEY

166 GENERATE MESSAGE
DIGEST OF FILE

168 ENCRYPT MD WITH
APPLET'S PRIVATE KEY

170 ENCRYPT SESSION KEY
WITH USER'S PRIVATE
KEY

AGENT

FIG. 2(d)

APPLET SENDS ENCRYPTED FILE,
SESSION KEY AND MESSAGE DIGEST

AGENT DECRYPTS
SESSION KEY WITH
USER'S PUBLIC KEY 172

AGENT DECRYPTS FILE
WITH SESSION KEY 174

AGENT GENERATES
MESSAGE DIGEST OF
FILE 176

AGENT DECRYPTS
APPLET'S MD WITH
APPLET'S PUBLIC KEY 178

AGENT COMPARES
AGENT MD WITH
APPLET MD 180

AGENT ADDS TAGS FOR
USER, SUBMISSION
TIME AND DATE 182

AGENT ENCRYPTS FILE
WITH AGENT'S PUBLIC
KEY 184

AGENT WRITES
ENCRYPTED FILE TO FILE
SYSTEM 186

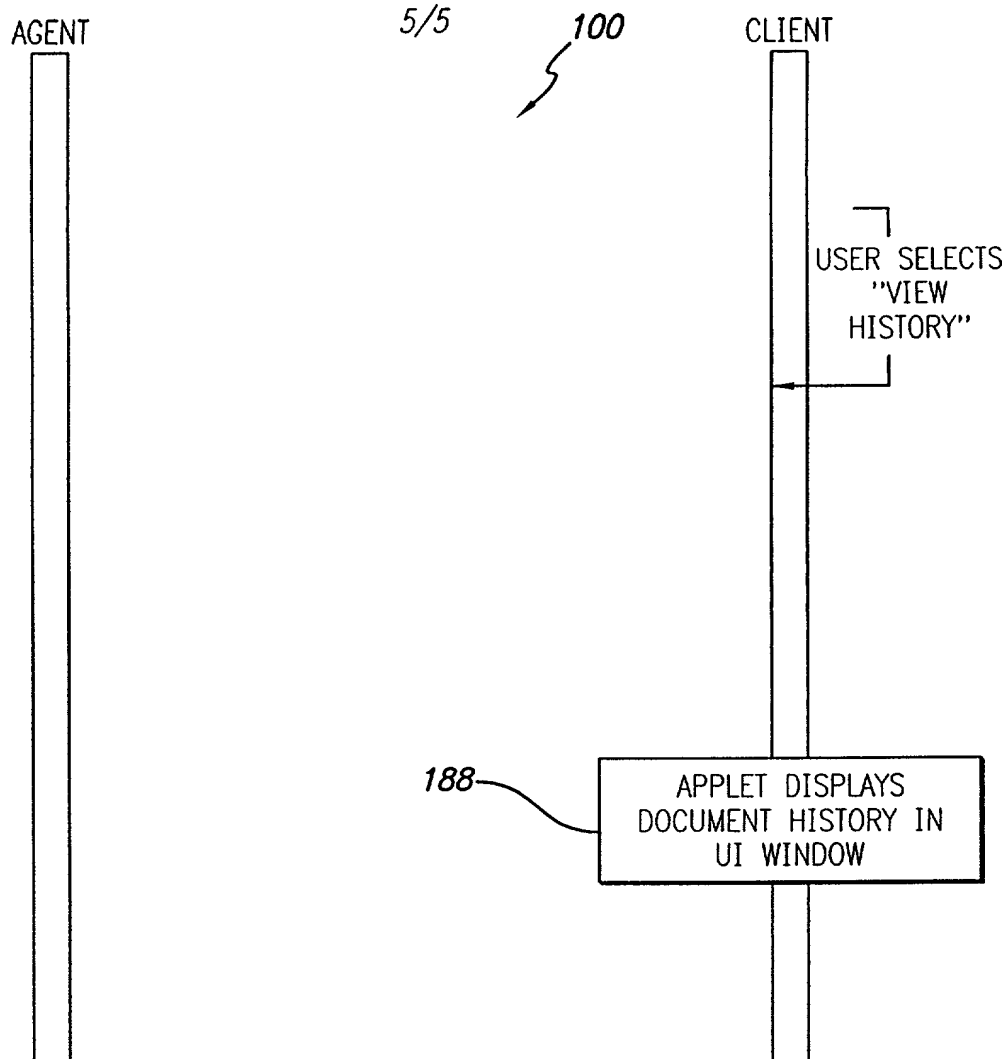


FIG. 2(e)